

Complete and send this form, together with applicable fee(s), to: **Mail**

Mail Stop ISSUE FEE
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

36491 7590 10/20/2004

KUNZLER & ASSOCIATES
8 EAST BROADWAY
SALT LAKE CITY, UT 84111

01/11/2005 FFANAI3 00000048 10086620

01 FC:2501 700.00 OP
 02 FC:1504 300.00 OP
 03 FC:8001 3.00 OP

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (703) 746-4000, on the date indicated below.

Brian C. Kunzler (Depositor's name)
[Signature] (Signature)
1/6/05 (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/086,620	02/28/2002	David B. Buehler	1027.2.1	1888

TITLE OF INVENTION: RECURSIVE RAY CASTING METHOD AND APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$685	\$300	\$985	01/21/2005

EXAMINER	ART UNIT	CLASS-SUBCLASS
NGUYEN, KIMBINH T	2671	345-424000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1. Kunzler & Associates2. Steven F. McDaniel

3. _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☒ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:

☒ Issue Fee
☒ Publication Fee (No small entity discount permitted)
☒ Advance Order - # of Copies 1

4b. Payment of Fee(s):

☐ A check in the amount of the fee(s) is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature

Brian C. Kunzler

Date

1/6/05

Typed or printed name

Brian C. Kunzler

Registration No.

38,527

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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PATENT
Docket No. 1027.2.1

**IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE**

APPLICANT(S): DAVID B. BUEHLER
SERIAL NO.: 10/086,620
FILING DATE: FEBRUARY 28, 2002
TITLE: RECURSIVE RAY CASTING METHOD AND APPARATUS
EXAMINER: NGUYEN, KIMBINH T.
GROUP ART UNIT: 2671
ATTY. DKT. NO.: 1027.2.1

MAIL STOP ISSUE FEE
COMMISSIONER FOR PATENTS
P.O. Box 1450
ALEXANDRIA, VA 22313-1450

**TRANSMITTAL OF THE
PAYMENT OF ISSUE FEE**

Sir:

The enclosed Payment of the Issue Fee Due is submitted herewith pursuant to 37 C.F.R. § 1.67 and M.P.E.P. § 603.01 for filing in the matter of the United States patent application as hereinabove identified. A duplicate copy of this sheet is enclosed.

Please address all future correspondence in connection with the above-identified patent application to the attention of the undersigned.

Commissioner of Patents
January 3, 2005
Page 2

Respectfully Submitted,
Brian C. Kunzler

A handwritten signature in black ink, appearing to read 'B. C. Kunzler', is written over a horizontal line.

Brian C. Kunzler
Reg. No. 38,527
Attorney for Applicant

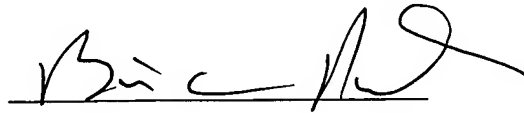
Date: January 3, 2005

Brian C. Kunzler
8 East Broadway, Suite 600
Salt Lake City, Utah 84111
Telephone: 801/994-4646

CERTIFICATE OF DEPOSIT UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to:
Commissioner of Patents and Trademarks, P.O. Box 1450, Alexandria, VA 22313-1450
on 1/6/05

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Bruce A. J.", written over a horizontal line.

Transmitted: Transmittal of Payment of Issue Fee.

Please type a plus sign (+) inside this box ☐

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<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; margin-right: 10px; text-align: center;"> OFFICE JAN 10 2005 PATENT & TRADEMARK DIVISION </div> <div> <h2 style="margin: 0;">FEE TRANSMITTAL</h2> <p style="font-size: small; margin-top: 5px;">Note: Effective December 8, 2004. Patent fees are subject to annual revision.</p> </div> </div>		Complete If Known		
		Application Number	10/086,620	
		Filing Date	February 28, 2002	
		First Named Inventor	David B. Buehler	
		Group Art Unit	2671	
Examiner Name	Nguyen, Kimbinh T.			
TOTAL AMOUNT OF PAYMENT		\$ 1003	Attorney Docket Number	1027.2.1

METHOD OF PAYMENT (check one)	FEE CALCULATION (continued)																																																																																																																																																																																																										
<p>1. <input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:</p> <p>Deposit Account No.: _____</p> <p>Deposit Account Name: _____</p> <p>Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 <input type="checkbox"/> Charge the Issue Fee In 37 CFR at the Mailing of the Notice of Allowance <input type="checkbox"/></p> <p>2. <input checked="" type="checkbox"/> Payment Enclosed:</p> <p style="margin-left: 20px;"><input checked="" type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other</p>	<h3>3. ADDITIONAL FEES</h3> <table style="width: 100%; font-size: small;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>1051</td><td>130</td><td>2051</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>1052</td><td>50</td><td>2052</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>1053</td><td>130</td><td>1053</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>1812</td><td>2520</td><td>1812</td><td>2520</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>1804</td><td>920*</td><td>1804</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>1805</td><td>1840*</td><td>1805</td><td>1840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>1251</td><td>120</td><td>2251</td><td>60</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>1252</td><td>450</td><td>2252</td><td>225</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>1253</td><td>1020</td><td>2253</td><td>510</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>1254</td><td>1590</td><td>2254</td><td>795</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>1255</td><td>2160</td><td>2255</td><td>1080</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>1401</td><td>500</td><td>2401</td><td>250</td><td>Notice of Appeal</td><td></td></tr> <tr><td>1402</td><td>500</td><td>2402</td><td>250</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>1403</td><td>1000</td><td>2403</td><td>500</td><td>Request for oral hearing</td><td></td></tr> <tr><td>1451</td><td>1510</td><td>1451</td><td>1510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>1452</td><td>110</td><td>2452</td><td>55</td><td>Petition to revive -unavoidably</td><td></td></tr> <tr><td>1453</td><td>1370</td><td>2453</td><td>685</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>1460</td><td>130</td><td>1460</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>1501</td><td>1400</td><td>2501</td><td>700</td><td>Utility Issue fee</td><td>700</td></tr> <tr><td>1502</td><td>800</td><td>2502</td><td>400</td><td>Design issue fee</td><td></td></tr> <tr><td>1503</td><td>1100</td><td>2503</td><td>550</td><td>Plant issue fee</td><td></td></tr> <tr><td>8007</td><td>20</td><td>8007</td><td>20</td><td>Copy of Patent Application as filed</td><td></td></tr> <tr><td>1807</td><td>50</td><td>1807</td><td>50</td><td>Petitions related to provisional applications</td><td></td></tr> <tr><td>1806</td><td>180</td><td>1806</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>8021</td><td>40</td><td>8021</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>1801</td><td>790</td><td>2801</td><td>395</td><td>Request for continued examination (RCE) (37 CFR 1.114)</td><td></td></tr> <tr><td>1810</td><td>790</td><td>2810</td><td>395</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>1810</td><td>790</td><td>2810</td><td>395</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr> <td colspan="4">Other fee (specify) ___ Fee Code: 8001 Fee: 3.00 each Printed Copy of Patent w/o color, regular service delivery by USPS, UPSTO Box, or electronic means.</td> <td></td> <td>3</td> </tr> <tr> <td colspan="4">Other fee (specify) ___ Publication Fee _____</td> <td></td> <td>300</td> </tr> <tr> <td colspan="4" style="text-align: right;">*Reduced by Basic Filing Fee</td> <td colspan="2">SUBTOTAL (3)</td> </tr> <tr> <td colspan="4"></td> <td colspan="2">\$ 1003</td> </tr> </tbody></table>	Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1051	130	2051	65	Surcharge - late filing fee or oath		1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet		1053	130	1053	130	Non-English specification		1812	2520	1812	2520	For filing a request for reexamination		1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action		1805	1840*	1805	1840*	Requesting publication of SIR after Examiner action		1251	120	2251	60	Extension for reply within first month		1252	450	2252	225	Extension for reply within second month		1253	1020	2253	510	Extension for reply within third month		1254	1590	2254	795	Extension for reply within fourth month		1255	2160	2255	1080	Extension for reply within fifth month		1401	500	2401	250	Notice of Appeal		1402	500	2402	250	Filing a brief in support of an appeal		1403	1000	2403	500	Request for oral hearing		1451	1510	1451	1510	Petition to institute a public use proceeding		1452	110	2452	55	Petition to revive -unavoidably		1453	1370	2453	685	Petition to revive - unintentional		1460	130	1460	130	Petitions to the Commissioner		1501	1400	2501	700	Utility Issue fee	700	1502	800	2502	400	Design issue fee		1503	1100	2503	550	Plant issue fee		8007	20	8007	20	Copy of Patent Application as filed		1807	50	1807	50	Petitions related to provisional applications		1806	180	1806	180	Submission of Information Disclosure Stmt		8021	40	8021	40	Recording each patent assignment per property (times number of properties)		1801	790	2801	395	Request for continued examination (RCE) (37 CFR 1.114)		1810	790	2810	395	Filing a submission after final rejection (37 CFR 1.129(a))		1810	790	2810	395	For each additional invention to be examined (37 CFR 1.129(b))		Other fee (specify) ___ Fee Code: 8001 Fee: 3.00 each Printed Copy of Patent w/o color, regular service delivery by USPS, UPSTO Box, or electronic means.					3	Other fee (specify) ___ Publication Fee _____					300	*Reduced by Basic Filing Fee				SUBTOTAL (3)						\$ 1003	
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SUBMITTED BY				Complete (if applicable)	
Typed or Printed Name		Brian C. Kunzler		Reg. Number	38,527
Signature				Date	Jan 3, 2005
				Deposit Account User ID	

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington,